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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/766,481	01/29/2004	Okito Nishio	58546.00013	3732
32294	7590 03/22/2006		EXAMINER	
SQUIRE, SANDERS & DEMPSEY L.L.P.			HEITBRINK, JILL LYNNE	
14TH FLOOR 8000 TOWERS CRESCENT			ART UNIT	PAPER NUMBER
TYSONS COI	RNER, VA 22182		1732	<del></del>

DATE MAILED: 03/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

				<i>D</i>			
		Application No.	Applicant(s)				
		10/766,481	NISHIO, OKITO				
	Office Action Summary	Examiner	Art Unit				
		Jill L. Heitbrink	1732				
Period fo	<ul> <li>The MAILING DATE of this communication or Reply</li> </ul>	n appears on the cover sheet v	vith the correspondence address	; <b>-</b> ·			
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR RIMALING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailling date of this communication experiod for reply specified above is less than thirty (30) days, or period for reply is specified above, the maximum statutory pure to reply within the set or extended period for reply will, by sureply received by the Office later than three months after the red patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a n. a reply within the statutory minimum of the eriod will apply and will expire SIX (6) MO statute, cause the application to become A	reply be timely filed  irty (30) days will be considered timely.  NTHS from the mailing date of this communitations (35 U.S.C. § 133).	ication.			
Status				•			
1)	Responsive to communication(s) filed on _						
2a)□	-	This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
5)□ 6)⊠ 7)□	4)  Claim(s) 1-11 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) is/are allowed.  6)  Claim(s) 1-11 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/or election requirement.						
Applicati	ion Papers						
9)	The specification is objected to by the Exar	miner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)	Replacement drawing sheet(s) including the co The oath or declaration is objected to by the	·	• • • •	• •			
Priority u	ınder 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachmen		_					
2) ☐ Notic 3) ☑ Infor	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948 nation Disclosure Statement(s) (PTO-1449 or PTO/SE r No(s)/Mail Date 1/29/04.	) Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152) 				

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## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 1. Claims 1-2 are rejected under 35 U.S.C. 102(e) as being anticipated by Shibuya Pat. No. 6,376,940.
- 2. Shibuya discloses a rotational speed control (col. 6, lines 50-57) by sending an electric current to a stator 41 attached to the injection frame 2 (col. 3, lines 13-15). The rotor (40) is disposed radially inward of the stator (41), see figure 2. The rotor includes a hollow cylindrical member (40) and a magnet (40m) attached to the hollow cylindrical member. The rotor transmits rotation to the screw (col. 3, lines 6,7 and 30) via a slide member (3). The screw and slide member retreat during metering, Ds.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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3. Claims 1-6, 8-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over either European Patent Application 1004421 to Emoto or Emoto Pat. No. 5,679,384 taken together with Shibuya Pat. No. 6,376,940.

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- 4. Emoto '421 discloses a similar method and apparatus in Figures 6, 8 and 9. Emoto '384 discloses a similar method and apparatus in Figure 4. The hollow cylindrical member (156, 356 first rotor shaft in Emoto'421 or first rotor shaft 56 in Emoto'384) is attached to the rotor as shown in the drawings. It would have been obvious to a person of ordinary skill in the art to provide a magnet in the rotor in view of Shibuya since rotors with magnets are known when producing rotation. Emoto discloses an encoder (384 in Emoto'421 and 85 in Emoto'384) for detecting the rotational speed.
- 5. Claim 6-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over either European Patent Application 1004421 to Emoto or Emoto Pat. No. 5,679,384 taken together with Shibuya Pat. No. 6,376,940 as applied to claims 1-6 above, and further in view of Nagate et al. Pat. No. 5,864,192.
- 6. Nagate (col. 18, lines 39-67) teaches the use of magnetic lines of force for determining the rotational speed of a motor. It would have been obvious to use the magnet detector of Nagate in either Emoto patent since this would provide similar speeds to the encoder.
- 7. Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over either European Patent Application 1004421 to Emoto or Emoto Pat. No. 5,679,384 taken together with Nagate et al. Pat. No. 5,864,192.

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8. Emoto '421 discloses a similar method and apparatus in Figures 6, 8 and 9. Emoto '384 discloses a similar method and apparatus in Figure 4. The hollow cylindrical member (156, 356 first rotor shaft in Emoto'421 or first rotor shaft 56 in Emoto'384) is attached to the rotor as shown in the drawings. Nagate (col. 18, lines 39-67) teaches the use of magnetic lines of force for determining the rotational speed of a motor. It would have been obvious to use the magnet detector of Nagate in either Emoto patent since this would provide similar speeds to the encoder.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jill L. Heitbrink whose telephone number is (571) 272-1199. The examiner can normally be reached on Monday-Friday 9 am -2 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Colaianni can be reached on (571) 272-1196. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jill L. Heitbrink
Primary Examiner
Art Unit 1732

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